



Association EDI-Optique

**OPTO v11 Optic Catalogue
IMPLEMENTATION GUIDE
FOR FRAME and SHAPE**

Business Domain: Optic – Supply Chain

Business Process: Catalogue Process

Document Identification:

Title: OPTO v11 Optic Catalogue

Document location:

Version: 1.00

Release: R.15

Date of AEO approval: 2011-03-31

Document Summary

Document Item	Current Value
Document Title	OPTO v 11 Optic Catalogue Implementation Guide for Frame and Shape
Date Last Modified	2011-03-31
Current Document Issue	Issue #15
Status	Release
Document Description (one sentence summary)	Implementation guide for product optic catalogue.

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Log of Changes

Issue No.	Date of Change	Changed By	Summary of Change
#1	2009-10-14	Julien DROUIN	Creation
#14	2010-04-04	Alexandre RIVALLAIN	Revision and multiple minor corrections.
#15	2011-03-31	Jean-Christophe LEROY	Updated references Modified Classification and characteristics references. Added chapter 5.

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1. Preamble

This document describes in details the different parts of a ebXML Opto11 « OpticCatalogue ». This document must be use with the ebXML scheme and BRS.

The reader need to use the documents give by Association EDI-Optique like the dictionary data and the XML document which describe the Classes and Properties associated to theses Classe.

2. References

- OPTO v11 Optic Catalogue – Read me
- OPTO v11 Optic Catalogue – Understanding the ebXML Strategy
- OPTO v11 Optic Catalogue – Business Requirements Specification
- OPTO v11 Optic Catalogue – Requirements Specification Mapping
- OPTO v11 Optic Catalogue – Data dictionary

The following XML schema and XML documents are also used for reference:

- CatalogueManifest_1p1p0.xsd
- OpticReusableAggregateBusinessInformationEntity_0p1p1.xsd
- OpticClassifications_v1.0r06.xsd
- OpticQualifiedDataType_1p1p0.xsd
- Optic_CharacteristicTypeCode_1p0.xsd
- Optic_PriceCode_1p1.xsd
- Optic_ActionCode_1p1.xsd
- Optic_RangeCode_1p1.xsd
- Optic_RelationCode_1p1.xsd
- Optic_StatusCode_1p1.xsd
- Optic_StatusCode_1p1.xsd
- Optic_DocumentTypeCode_1p1.xsd
- OpticPartyIdentificationCode-1.1.gc

This guide provides implementation support for the following ISO standards:

- ISO 10685-1: Spectacle frames and sunglasses electronic catalogue and identification – Part 1: Product identification and electronic catalogue product hierarchy
- ISO 10685-2: Spectacle frames and sunglasses electronic catalogue and identification – Part 2: Commercial information
- ISO 10685-3: Spectacle frames and sunglasses electronic catalogue and identification – Part 3: Technical information

Additional implementation guides are available for specific product implementation:

- Implementation guide – classification
- OPTO v11 Optic Catalogue – Implementation guide – common parts
- OPTO v11 Optic Catalogue – Implementation guide for lens
- OPTO v11 Optic Catalogue – Implementation guide for contact lens and care product
- OPTO v11 Optic Catalogue – Implementation guide for accessories
- OPTO v11 Optic Catalogue – Implementation guide for packs

3. Objective

This document aims to assist various stakeholders in the distribution chain of the catalogue to implement the OPTO v11 ebXML Optic Catalogue process.

The guide includes several sections:

- Chapter 4 details the content of all elements included the Catalogue Item element for a **Frame**. For each XML element and sub-element, possible values and attributes are defined. A sample is provided implementation rules are described. Each data is also mapped into the business reference of the data dictionary. In order to detail elements in a logical order, the author has used the exact same order that is used in the corresponding Business Requirement Specification.
- Chapters 5 explain to the reader how to build or read and OPTO v11 ebXML Optic Catalogue of Frames

The Implementation guide is subject to evolutions. It shall be considered as the repository of any information useful to successfully implement the OPTO v11 ebXML Optic Catalogue process.

4. OPTO v11 Optic Catalogue components for frames

4.1. Contained Optic Catalogue Item (Optic Catalogue)

Mandatory Element (1..n)

Description: A separate optical item for sale.

Example:

```
<oram:ContainedOpticCatalogueItem>
...
</oram:ContainedOpticCatalogueItem>
```

4.1.1. Identifier

Data Number = NOT IN DICTIONNARY

Mandatory Element

Description: The unique identifier for this optic catalogue item.

Data Type: ID (item sequence number in auto increment)

This identifier must be unique within the catalogue. So this identifier must be unique for your Lens, Option, Combined Option, Combined Lens Range Option and packs of products.

Example:

```
<oram:ID>000012345</oram:ID>
```

4.1.2. Action code

Data Number = #995

Mandatory Data

Description: The code specifying the action for this optic catalogue item.

Data Type: Action Code

List of values:

- 1 : new, modified
- 2 : deleted

Example

```
<oram:ActionCode>1</oram:ActionCode>
```

Note for point of sale: When you delete a catalogue item you have to delete the item with corresponding Product identification (ProductID, IssuingPartyID and ExtendedProductID)

4.1.3. Last Changed Date Time

Data Number = #996

Mandatory Data

Description: The date or date time value of the last changed for this optic catalogue item.

Data Type: Date Time

Example:

```
<oram:LastChangedDateTime>2009-12-17T09:30:47.0Z</oram:LastChangedDateTime>
```

4.1.4. Multimedia Presentation Picture

Data Number = #512

Optional Data

Description: An actual picture of this optic catalogue item.

Data Type: Picture

Example:

```
<oram:MultimediaPresentationPicture>
  <oram:CopyrightOwnerName languageID="en-
us">@Copyright</oram:CopyrightOwnerName>
  <oram:Description languageID="en-us">Monture XXX de face</oram:Description>
  <oram:DigitalImageBinaryObject encodingCode="7" filename="Nom du fichier.jpeg"
uri="http://www.altova.com" characterSetCode="3"
mimeCode="image/jpeg">UjBsR09EbGhjZ0dTQUxNQUFBUNBRU1tQ1p0dU1GUXhEUzhi</oram:DigitalI
mageBinaryObject>
  <oram:Subject languageID="en-us">Monture XXX</oram:Subject>
  <oram:TakenDateTime>2001-12-17T09:30:47.0Z</oram:TakenDateTime>
</oram:MultimediaPresentationPicture>
```

Encoding Base64 is use to add the picture in DigitalImageBinaryObject element.

W3C Link: <http://www.w3.org/TR/xmlschema-2/#base64Binary>

Wikipedia Link: <http://en.wikipedia.org/wiki/Base64>

4.2. Applicable Optic Trade Agreement (Optic Catalogue Item) (0..1)

Mandatory Element

Description: The applicable optic trade agreement for this optic catalogue item.

Example:

```
<oram:ApplicableOpticTradeAgreement>
...
</oram:ApplicableOpticTradeAgreement>
```

4.2.1. Specified Optic Price information (Optic Trade agreement)

Mandatory Element

Description: A price for this optic trade agreement.

Example:

```
<oram:SpecifiedOpticPriceInformation>
...
</oram:SpecifiedOpticPriceInformation>
```

4.2.1.1. Assigned Optic Price

Mandatory Data (1..n)

Description: A price amount for the catalogue item

Data Type: OpticPrice

Example:

```
<oram:AssignedOpticPrice>
...
</oram:AssignedOpticPrice>
```

4.2.1.1.1. Charge Amount

Data Number:

- #979 : Mandatory Data
- #981 : Optional Data
- #983 : Optional Data
- #1010 : Optional Data
- #1012 : Optional Data

Description: The amount of basic price.

Data Type: Amount

Example:

```
<oram:ChargeAmount currencyID="EUR">312.30</oram:ChargeAmount>
```

4.2.1.1.2. Type Code

Data Number:

- #980: Mandatory Data
- #982: Optional Data

- **#984: Optional Data**
- **#1011: Optional Data**
- **#1013: Optional Data**

Description: The code specifying the type of basic price.

Data Type: Price Code

List of values:

- **AAA**: purchase price according to standard price list, VAT excluded (**#980**)
- **AAB**: net purchase price, no end of period back payment and VAT excluded
- **AAC**: net purchase price, VAT excluded
- **AAD**: recommended selling price, VAT included
- **AAE**: minimum recommended selling price, VAT included
- **AAF**: maximum recommended selling price, VAT included
- **AAG**: recommended selling price incl. insurance, VAT included

Example:

```
<oram:TypeCode>AAA</oram:TypeCode>
```

4.2.1.2. Validity Delimited Period

Data Number = #474

Optional Element

Description: A period when this optic price information is valid.

Data Type: Period

Example:

```
<oram:ValidityDelimitedPeriod>
  <oram:StartDateTime>2001-12-17T00:00:00.0Z</oram:StartDateTime>
</oram:ValidityDelimitedPeriod>
```

This period of validity included the first day.

4.2.2. Action code

Data Number = #995

Mandatory Data

Description: The code specifying the action for this optic trade agreement.

Data Type: Action Code

List of values:

- **1** : new, modified
- **2** : deleted

Example

```
<oram:ActionCode>1</oram:ActionCode>
```

Note for point of sale: When you delete a catalogue item you have to delete the item with corresponding Product identification (ProductID, IssuingPartyID and ExtendedProductID)

4.2.3. Last Changed Date Time

Data Number = #996

Mandatory Data

Description: The date or date time value of the last changed for this optic catalogue item.

Data Type: Date Time

Example:

`<oram:LastChangedDateTime>2009-12-17T09:30:47.0Z</oram:LastChangedDateTime>`

4.3. Referenced Optic Product (Optic Catalogue Item)

Mandatory Data

Description: The optic product for this optic catalogue item.

Example:

```
<oram:ReferencedOpticProduct>
...
</oram:ReferencedOpticProduct>
```

4.3.1. Specified Optic Product Identification (Optic Product)

Description: A collection of identifier for this optic product.

Data Number = #468

Mandatory Data

Example:

```
<oram:SpecifiedOpticProductIdentification>
  <oram:ID schemeID="UPC">123</oram:ID>
  <oram:ExtendedID>10</oram:ExtendedID>
</oram:SpecifiedOpticProductIdentification>
```

Notes:

- ExtendedID contains the Class code of Product. (**Optional Data**)
- The Association Edi Optique preconize to use an unique id for all your products

4.3.2. Name

Data Number = #466

Mandatory Data (1..*)

Description: Name of product which distinguishes it from other products and if necessary to be used in trade messages such as order and invoice.

Data Type: String

You can have the product name in several languages.

Example:

```
<oram:Name languageID="en-us">Name of Product</oram:Name>
```

4.3.3. Color Code

Data Number = #516

Mandatory Data

Description: The code specifying the color of the optic product.

Data Type: Code

Example:

```
<oram:ColorCode>144</oram:ColorCode>
```

4.3.4. Color Description

Data Number = #481

Optional Data

Description: The description for the color of the optic product.

Data Type: String

You can have the product name in several languages.

Example:

```
<oram:ColorDescription languageID="en-us">Description of the color</oram:ColorDescription>
```

4.3.5. Applicable Optic CEN Restriction (Optic Product)

Optional Element

Description: A directive on the restriction of the driver's use of optical products.

Example:

```
<oram:ApplicableOpticCENRestriction>
```

...

```
<oram:ApplicableOpticCENRestriction>
```

4.3.5.1. Identifier

Mandatory Data

Data Number = #492

Description: The unique identifier for this CEN restriction.

Data Type: ID

List of values:

- 0: No restriction
- 1: Not recommended for driving at night
- 2: Not recommended for driving

Example:

```
<oram:ID>0</oram:ID>
```

4.3.5.2. Category Identifier

Mandatory Data

Data Number = #493

Description: The unique identifier for the category of this CEN restriction.

Data Type: ID

List of values:

- 0: Category 0 (80%< Tv <=100%) - Comfort
- 1: Category 1 (43%< Tv <=80%) - Low luminosity
- 2: Category 2 (18%< Tv <=43%) - Average luminosity
- 3: Category 3 (8%< Tv <=18%) - High Luminosity
- 4: Category 4 (3%< Tv <= 8%) - Exceptional Luminosity

Example:

```
<oram:CategoryID>0</oram:CategoryID>
```

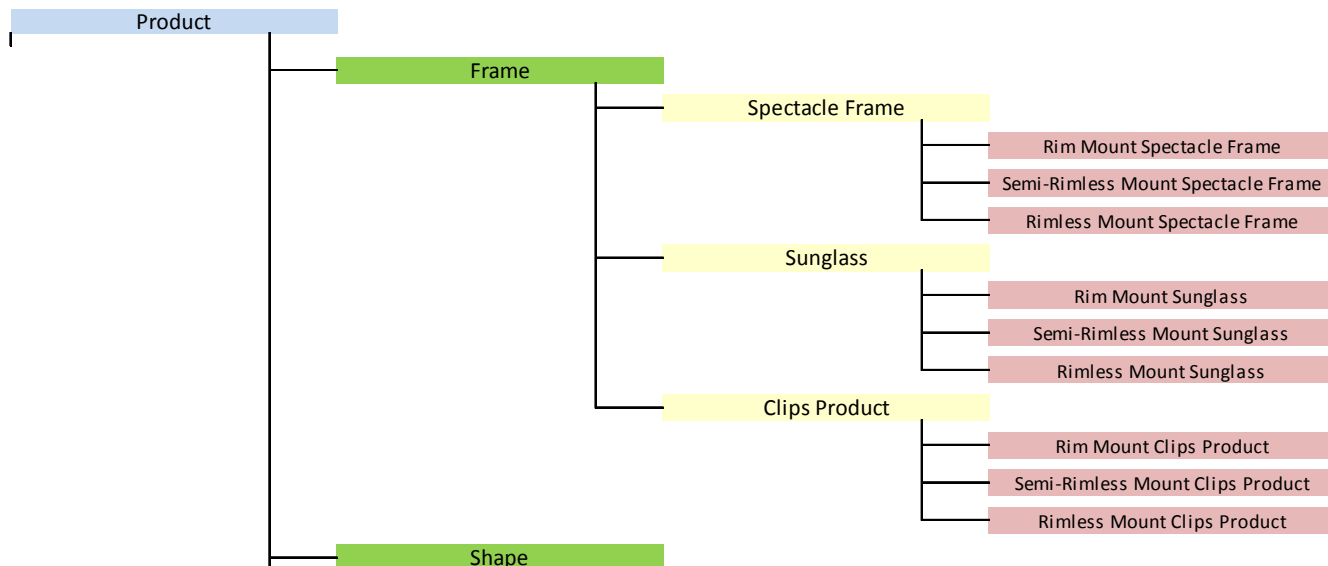
4.3.6. Designated Optic Product Classification (Optic Product)

Description: The classification designated for this optical product.

A product can belong to one class only.

Please refer to the *Implementation guide – classification and the OPTO v11 Optic Catalogue – Implementation guide – common parts* for detailed information on how to add an optic product classification with characteristics.

Notes about classification for Frames:



4.3.7. Serial Number Indicator

Data Number = #491

Optional Data

Description: An indication of whether or not this product can be identified by a serial number.

Data Type: Indicator

Example:

```
<oram:SerialNumberIndicator>>false</oram:SerialNumberIndicator>
```

4.3.8. Brand Identifier

Data Number = #973

Optional Data

Description: The unique identifier of the brand of the optic product.

Data Type: ID

Example:

```
<oram:BrandID>1012</oram:BrandID>
```

4.3.9. Brand Name

Data Number = #974

Optional Data

Description: The name, expressed as text, for the brand of the optic product.

Data Type: String

Example:

```
<oram:BrandName languageID="en-us">Brand Name</oram:BrandName>
```

4.3.10. Sub Brand Identifier

Data Number = #975

Optional Data

Description: The unique identifier of the sub brand of the optic product.

Data Type: ID

Example:

```
<oram:SubBrandID>10</oram:SubBrandID>
```

4.3.11. Sub Brand Name

Data Number = #976

Optional Data

Description: The name, expressed as text, for the sub brand of the optic product.

Data Type: String

Example:

```
<oram:SubBrandName languageID="en-us">SubBrand Name</oram:SubBrandName>
```

4.3.12. Model Name

Data Number = #972

Mandatory Data

Description: The name, expressed as text, for the model of the optic product.

Data Type: String

Example:

```
<oram:ModelName languageID="en-us">Model Name</oram:ModelName>
```

4.3.13. Applicable Optic Product Characteristic (Optic Product Classification)

Optional Element

Example:

```
<oram:ApplicableOpticProductCharacteristic>
...
</oram:ApplicableOpticProductCharacteristic>
```

Please refer to the *Implementation guide – classification and the OPTO v11 Optic Catalogue – Implementation guide – common parts* for detailed information on how to add an optic product classification with characteristics.

Frame Product

FrameClass

ID	Name	Mandatory
977	Custom code	true

479	Type of user code	true
978	Type of use code	false
985	NRF color code	false
478	Main material code	false
1029	Additional specifications	false
997	Lens former availability	true
482	Nominal horizontal lens size	true
518	Nominal distance between lenses	true
998	Lens width	false
999	Lens height	false
1000	Distance between lenses	false
986	Frame effective diameter	false
1023	Trace data is available on website	false
1005	Frame trace data link	false
1024	Trace data	false
1007	Frame material	false

SpectacleFrameClass

ID	Name	Mandatory
485	Nominal overall length of side	true
1028	Joint spring	false
1021	Overall length of side	true
1001	Type of lens edge	false
519	Frame pantoscopic angle (angle of side)	false
1008	Frame curve in diopter	false
1004	Face form angle	false
1036	Ability to insert and retain	false

RimMountSpectacleFrameClass

No specific characteristic

SemiRimlessMountSpectacleFrameClass

ID	Name	Mandatory
1002	Groove depth in the lens of a semi-rimless	false
1003	Groove width in the lens of a semi-rimless	false

RimlessMountSpectacleFrameClass

ID	Name	Mandatory
1037	Reference to shapes	false

SunglassClass

ID	Name	Mandatory
485	Nominal overall length of side	false
1015	Lens ID	true
988	Lens base	false

993	Lens description	false
1017	Filtration type of the lens	false
1028	Joint spring	false
1021	Overall length of side	true
1001	Type of lens edge	false
519	Frame pantoscopic angle (angle of side)	false
1008	Frame curve in diopter	false
1004	Face form angle	false
1036	Ability to insert and retain	false

RimMountSunglassClass

No specific characteristic

SemiRimlessMountSunglassClass

ID	Name	Mandatory
1002	Groove depth in the lens of a semi-rimless	false
1003	Groove width in the lens of a semi-rimless	false

RimlessMountSunglassClass

ID	Name	Mandatory
1037	Reference to shapes	false

ClipsProductClass

ID	Name	Mandatory
1015	Lens ID	true
988	Lens base	false
993	Lens description	false
1017	Filtration type of the lens	false
1001	Type of lens edge	false
1036	Ability to insert and retain	false

RimMountClipsProductClass

No specific characteristic

SemiRimlessClipsProductClass

ID	Name	Mandatory
1002	Groove depth in the lens of a semi-rimless	false
1003	Groove width in the lens of a semi-rimless	false

RimlessMountClipsProductClass

ID	Name	Mandatory
1037	Reference to shapes	false

Shape product

ShapeClass

ID	Name	Mandatory
1023	Trace data is available on website	false
1005	Frame trace data link	false
1024	Trace data	false
1006	Drill data (depreciated version)	false
1031	Drill data	false

Please note that ISO standard 10685-1, 10685-2, 10685-3 provide detailed information about fields to be mapped into the Frame catalogue. Please refer to these standards.

5. How to associate Frames and Shapes

The OPTOv11 Catalogue provides the ability to associate a frame and a shape whenever the frame belongs to one of the following Classes:

- RimlessMountSpectacleFrameClass
- RimlessMountSunglassClass
- RimlessMountClipsProductClass

Multiple shapes can be associated to the Frame. The association is made through the use of the Applicable Optic Product Characteristic #1037 (Reference to shapes).

In this data, the shape product identifier shall be used to make the link.